

REDACTED

LB888884

United States Environmental Protection Agency
Region 4



35TH AVENUE REMOVAL INVESTIGATION
BIRMINGHAM, ALABAMA
JEFF CROWLEY, ON-SCENE COORDINATOR

FIELD SAMPLING LOGBOOK

Book 1 of 1

Inclusive Dates: 11/13/12 - 11/15/12

List of Sampling Team in logbook:

Name	Initials	Organization/Duties
(b) (6)		OTIE, Team Leader
		URS
		OTIE
		OTIE
		OTIE

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General Soil Descriptions

Color	Abbv
Black	blk
Brown	bwn
Light Brown	lt/bwn
Dark Brown	dk/bwn
Gray	gry
Light Gray	lt/gry
Olive Gray	olv/gry
Greenish Gray	grn/gry
Dark Gray	dk/gry
Tan	tn
Light Tan	lt/tn
Orange	Org
Red	Rd

Soils	Abbv
Clay	CL
Sandy Clay	sndy CL
Silty Clay	slty CL
Sand	Snd
Silty Sand	slty Snd
Silt	slt
Grass	grs
Organic	Org

Sizes	Abbv
Coarse	C
Coarse to medium	c-m
Coarse to fine	c-f
Medium to fine	m-f
Fine	f

Texture	Abbv
Hard	hrd
Dry	Dry
brittle	brt
Stiff	stf
Very Stiff	vry stf
soft	sft
Very Soft	vry sft
Damp	dmp
Wet	wt
Wet	wt

Sampling Procedures and Methodology

Unless specified elsewhere in this logbook, all soil samples will be collected in accordance with the EPA Science and Ecosystem Division (SESD) Field Branches Quality System and Technical Procedures (FBQSTP) Soil Sampling (SESDPROC-300-R2) based on the following design.

The total number of 5-point composite surface soil samples (0-4 inches below ground surface) to be collected from each property will be based on the lot size as follows:

- For residential properties with a total parcel lot size equal to or less than (\leq) 5,000 square feet - the front yard and back yards of each property. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may also be collected from the side yard. Aliquots will be collected away from influences with drip lines and burn areas in a five dice configuration (each of the four corners and the center).
- For residential properties with a total parcel lot size greater than ($>$) 5,000 square feet and $\leq \frac{1}{4}$ -acre - the property should be divided into two roughly equal surface areas. If the property has a substantial side yard (primarily corner lots), then one composite soil sample may be collected from the side yard with the remainder of the property being divided into two roughly equal surface areas. Aliquots will be collected away from influences including drip lines and burn areas with reasonably equal spacing between aliquots.
- Residential properties over $\frac{1}{4}$ -acre in parcel lot size will be divided into $\frac{1}{4}$ -acre sections. When dividing any such property with a substantial side yard (primarily corner lots), one composite soil sample may be collected from the side yard. Aliquots will be collected away from influences including drip lines and burn areas in a five dice configuration, if possible, with reasonably equal spacing between aliquots.

Grab surface soil samples will be collected from apparent exposure pathways where active play sets are located.

Three-point composite surface soil samples will be collected from distinct vegetable gardens from each residential property.

Samples shall not be collected under paved areas or under stationary fixed structures.

Grab sediment samples will be collected in accordance with EPA SESD FBSTP Sediment Sampling (SESDPROC-200-R2) from any surface water drainage pathways located on individual properties, as directed by the OSC, and in and along the banks of the 34th Street North Ditch.

Each surface soil or sediment sample should be homogenized in a stainless steel bowl. One 8-ounce jar will be filled and the remaining sample material will be placed in zip-top bags for screening. Information identifying the location, sample, and date/time will be inscribed on each jar and zip-top bag.

All sample bags will be screened for metals in accordance with SESD FBQSTP Field XRF Measurement (SESDPROC-107-R2) using a Niton XRF. The sample will be dried before sieving or analysis is performed. Once the sample has dried, the sample will be divided into two subsamples; one subsample will be sieved through a #10 screen (2 mm) and the other will be left unsieved. Once separated into sieved and unsieved samples, the zip-top bag will be compressed by folding over the excess plastic and removing as much air and space from the sample as possible. The XRF will be placed directly on the exterior of the compressed sample in the plastic zip-top bag to measure metals concentrations. Following XRF screening, the unsieved portion of the sample material will be containerized into one 8-ounce jars and the sieved portion of the sample will be containerized into another 8-ounce jar.

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Based on the site DQOs the 8-ounce jars of surface soil and sediment samples should be submitted to PEL, Tampa, Florida (a NELAC certified laboratory) for low level PAH, and/or TCL SVOC, RCRA metals, PCB, and/or Hexavalent Chromium analysis. RCRA metals will be analyzed from both the sieved and unsieved portions of the sample. All other analysis will be conducted on the unsieved portion.

The location of each aliquot will also be logged in accordance with SESD FBQSTP Global Positioning System (SESDPROC- 110-R3) using a Trimble GPS.

A description of the color and texture of the aliquot material will be recorded in each box.

The **station ID** for each location will consist of seven characters, beginning with the six digit Property ID designation for the property followed by a alphabetic letter beginning with "A".

e.g. CV0001A would be the station ID for the front yard 5-pt composite sample collected at the property with Property ID CV0001.

The **sample ID** for each sample is the station ID with "CS" (composite soil), "GS" (grab soil), "SD" (sediment), or "SW" (surface water) appended, therefore, the sample ID for this sample would be CV0001A-CS. Co-located duplicates will be designated by appending a "D" to the end of the sample ID. Pan splits will be identified by appending an "SP" to the end of the sample ID.

(b) (6)

ADDRESS: 111312

PROPERTY ID: CV-0194

DATE: 11/13/12

ARRIVAL TIME: 0910

Other pertinent information (weather conditions, etc.):

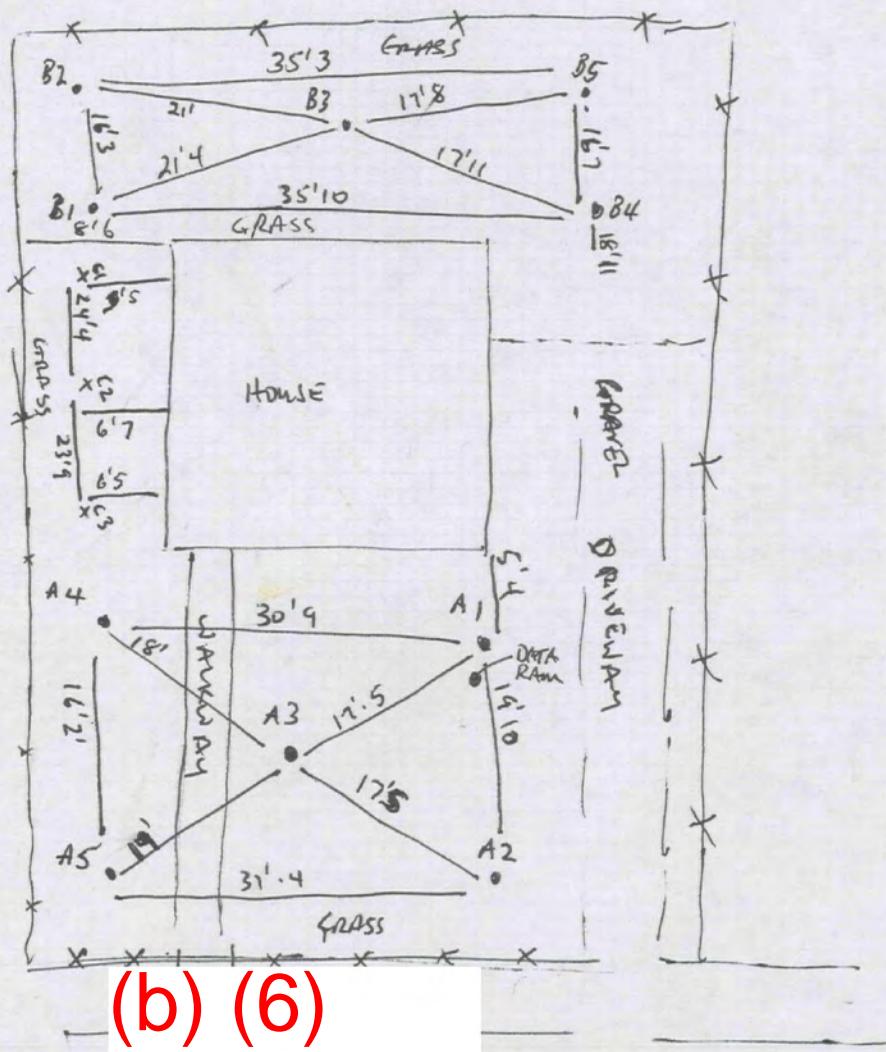
CLOUDY SUNNY 42°F

PROPERTY COMMENTS:

FRONT YARD APPEARS TO HAVE BEEN SOOTED AND FILLED

SIDE YARD - MORE NATURAL VEGETATION

Grid for property sketch



STATION ID: CV0194A

SAMPLE ID: CV0194A-CS ✓

SAMPLE COLLECTION TIME: 0953

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS SODDOS W/IN, DRANGE SWL

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [✓]	Instrument #: 016144	Logged? Y or N
Aliquot #1: Latitude: 33.56042912550	N Longitude 86.80409567260	W
Media description: ORG, CLW/TRACE SLT, DMP		
Aliquot #2 Latitude: 33.56043447660	N Longitude 86.80404018950	W
Media description: ORG, CLW/TRACE SLT, DMP		
Aliquot #3: Latitude: 33.56039834110	N Longitude 86.80407061740	W
Media description: ORG, CLW/TRACE SLT, DMP		
Aliquot #4: Latitude: 33.56035484750	N Longitude 86.80409812730	W
Media description: ORG, CLW/TRACE SLT, DMP		
Aliquot #5: Latitude: 33.56035755610	N Longitude 86.80404054640	W
Media description: ORG, CLW/TRACE SLT, DMP		

STATION ID: CV0194B

SAMPLE ID: CV0194B-CS

SAMPLE COLLECTION TIME: 1055

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble [✓]	Instrument #: 016144	Logged? Y or N
Aliquot #1: Latitude: 33.56036038480	N Longitude 86.80432253360	W
Media description: BLK SLT w/CL, DMP w/ CORAL FRAGMENTS		
Aliquot #2 Latitude: 33.56036136040	N Longitude 86.80437308700	W
Media description: BLK SLT w/CL, DMP w/ CORAL FRAGMENTS		
Aliquot #3: Latitude: 33.56030871580	N Longitude 86.80435011820	W
Media description: TAN SLT w/CL, DMP w/ CORAL FRAGMENTS		
Aliquot #4: Latitude: 33.56044823460	N Longitude 86.80435011820	W
Media description: BLK SLT w/CL, DMP w/ CORAL FRAGMENTS		
Aliquot #5: Latitude: 33.56044583590	N Longitude 86.80438978090	W
Media description: BLK SLT w/CL, DMP w/ CORAL FRAGMENTS		

PENSIUNAL AIR SAMPLING BCBW - 0410 - 1110

DATAFILE ST: 0910

SPP - 1110 ± 12.2 mg/m³

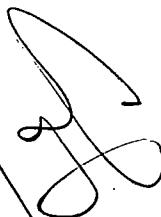
ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0194C SAMPLE ID: CV0194C - CS

SAMPLE COLLECTION TIME: 1024

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

MINE WASTE CONDITIONS GRASS BLACK SOIL

Collection: Composite or Grab SIDE YARD MS/MSD? Y or N

Field Duplicate or Split: Yes or No. If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates:	Trimble <input checked="" type="checkbox"/>	Instrument #:	<u>D16144</u>	Logged?	<u>Y</u> or N
Aliquot #1:	Latitude:	<u>33-560350</u>	<u>88610</u>	N Longitude	<u>86-80429730370</u> W
	Media description:	<u>BLK, SLT w/ CL, DAMP w/ SLAG, COAL</u>			
Aliquot #2:	Latitude:	<u>33-560351</u>	<u>8970</u>	N Longitude	<u>86-80422099400</u> W
	Media description:	<u>BLK, SLT w/ CL, Damp w/ CROWN FRAGMENTS, DEBRIS</u>			
Aliquot #3:	Latitude:	<u>33-560351</u>	<u>44470</u>	N Longitude	<u>86-80424184510</u> W
	Media description:	<u>BLK, SLT w/ CL, Damp w/ CROWN FRAGMENTS, DEBRIS</u>			
Aliquot #4:	Latitude:	N Longitude _____ W			
	Media description:				
Aliquot #5:	Latitude:	N Longitude _____ W			
	Media description:				

STATION ID: _____ SAMPLE ID: _____

~~SAMPLE COLLECTION TIME: _____~~

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab MS/MSD? Y or N

GPS Coordinates:	Trimble <input type="checkbox"/>	Instrument #:	<u> </u>	Logged?	<u>Y</u> or N
Aliquot #1:	Latitude:	<u> </u>	<u> </u>	N Longitude	W
	Media description:	<u> </u>			
Aliquot #2:	Latitude:	<u> </u>	<u> </u>	N Longitude	W
	Media description:	<u> </u>			
Aliquot #3:	Latitude:	<u> </u>	<u> </u>	N Longitude	W
	Media description:	<u> </u>			
Aliquot #4:	Latitude:	<u> </u>	<u> </u>	N Longitude	W
	Media description:	<u> </u>			
Aliquot #5:	Latitude:	<u> </u>	<u> </u>	N Longitude	W
	Media description:	<u> </u>			

(b) (6)

ADDRESS:

PROPERTY ID: CV-0434

DATE: 11/13/12

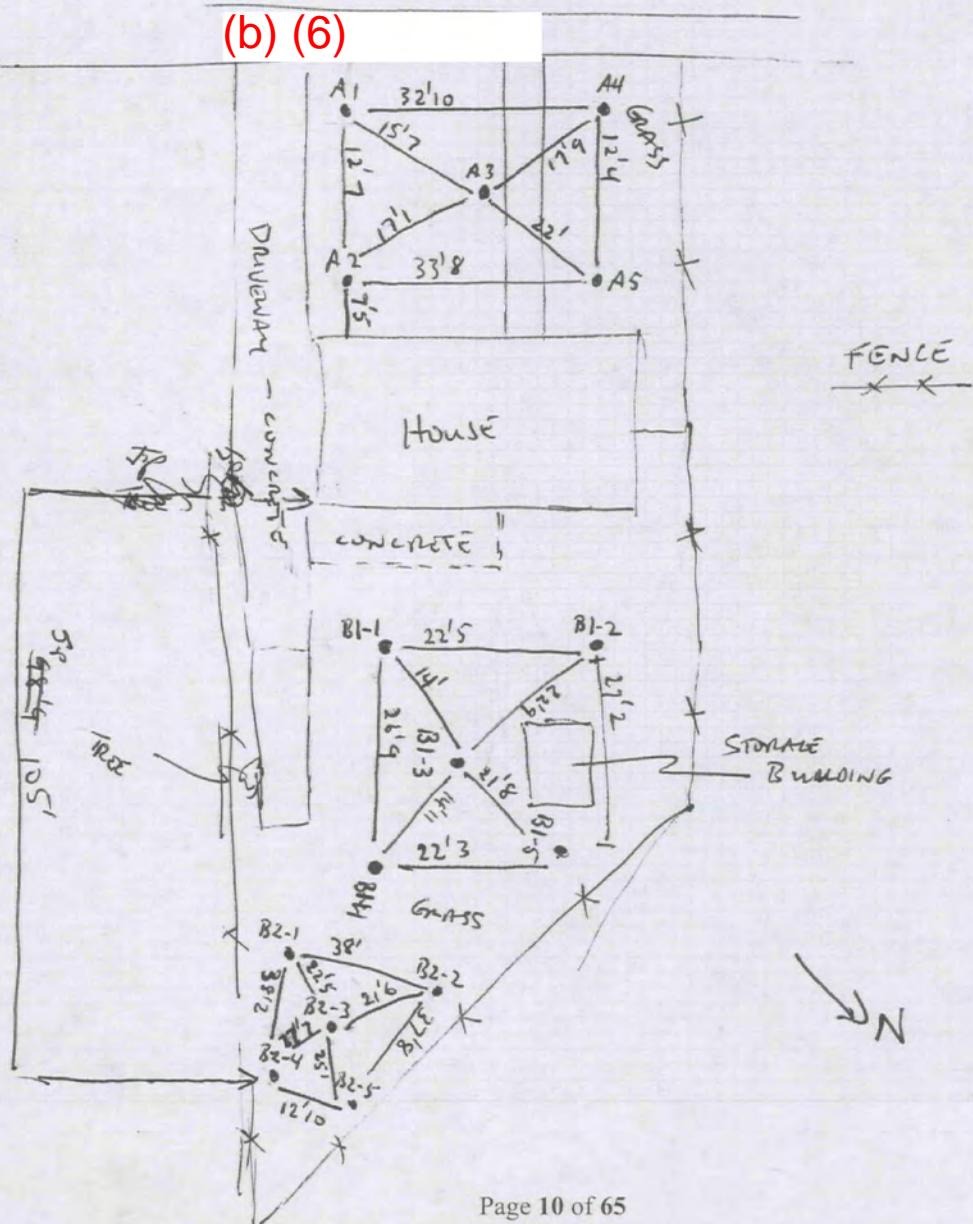
ARRIVAL TIME: 1120

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

SIZE OF PROPERTY BACK YARD DIVIDED INTO 2 SECTIONS - CV0434B1 AND CV0434B2

Grid for property sketch



STATION ID: CV0434A SAMPLE ID: CV0434A-CS

SAMPLE COLLECTION TIME: 1200

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [✓] Instrument #: 016144 Logged? Y or N
Aliquot #1: Latitude: 33.56017730590 N Longitude 86.80087222770 W
Media description: DK BWN, CLAY w/SLT, Damp w/wn FRAGMENTS
Aliquot #2: Latitude: 33.56014901030 N Longitude 86.80085730030 W
Media description: DK BWN, CL w/SLT, Damp
Aliquot #3: Latitude: 33.56021665210 N Longitude 86.80089383750 W
Media description: DK BWN, CL w/SLT, Damp
Aliquot #4: Latitude: 33.56023912800 N Longitude 86.80094748890 W
Media description: DK BWN, CL w/SLT, Damp
Aliquot #5: Latitude: 33.56026784430 N Longitude 86.80092391430 W
Media description: DK BWN, CL w/SLT, Damp

STATION ID: CV0434B2 SAMPLE ID: CV0434B2-CS

SAMPLE COLLECTION TIME: 1230

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

BACK YARD DIVIDED IN TWO SECTIONS

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [X] Instrument #: 016144 Logged? Y or N
Aliquot #1: Latitude: 33.56041815630 N Longitude 86.80060255040 W
Media description: DK BWN CL w/SLT, Damp
Aliquot #2: Latitude: 33.56048396510 N Longitude 86.80063213780 W
Media description: DK BWN CL w/SLT, Damp w/wn FRAGMENTS
Aliquot #3: Latitude: 33.56047282690 N Longitude 86.80059176090 W
Media description: DK BWN TO BCK CL w/SLT, Damp, w/wn FRAGMENTS
Aliquot #4: Latitude: 33.56047868750 N Longitude 86.80051502530 W
Media description: DK BWN CL w/SLT, Damp
Aliquot #5: Latitude: 33.56050474390 N Longitude 86.80052240480 W
Media description: DK BWN, CL w/SLT, Damp

PERSONNEL AIR PUMPS - 1120 - 1305

DATA/Time - ST: 1120 LAT - 33.56042571880
SRP: 1305 g.8 m³ LONG - 86.80408586850

ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch

JG

STATION ID: CV0434

SAMPLE ID: CV0434B1-CS

SAMPLE COLLECTION TIME: 1256

Description of sample location (front/back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [✓] Instrument #: D16144 Logged? Y or N

Aliquot #1: Latitude: 33.56036281620 N Longitude 86.80070346860 W
Media description: DK BWN, CL w/SLT, GRVEL, DMP

Aliquot #2: Latitude: 33.56039345320 N Longitude 86.80076418570 W
Media description: DK BWN, CL w/SLT, DMP

Aliquot #3: Latitude: 33.56039661700 N Longitude 86.80069061820 W
Media description: DK BWN, CL w/SLT, DMP, COAL FRAGMENTS

Aliquot #4: Latitude: 33.56041639430 N Longitude 86.80064535240 W
Media description: DK BWN, CL w/SLT, DMP, COAL FRAGMENTS

Aliquot #5: Latitude: 33.56045389550 N Longitude 86.80070481730 W
Media description: DK BWN, CL w/SLT, DMP, COAL FRAGMENTS

STATION ID: SAMPLE ID:

SAMPLE COLLECTION TIME:

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [] Instrument #: _____ Logged? Y or N

Aliquot #1: Latitude: _____ N Longitude _____ W
Media description: _____

Aliquot #2: Latitude: _____ N Longitude _____ W
Media description: _____

Aliquot #3: Latitude: _____ N Longitude _____ W
Media description: _____

Aliquot #4: Latitude: _____ N Longitude _____ W
Media description: _____

Aliquot #5: Latitude: _____ N Longitude _____ W
Media description: _____

(b) (6)

ADDRESS

PROPERTY ID:

CVX098

DATE: 11/13/12

ARRIVAL TIME: 1415

Other pertinent information (weather conditions, etc.):

clear sunny 54°f

PROPERTY COMMENTS:

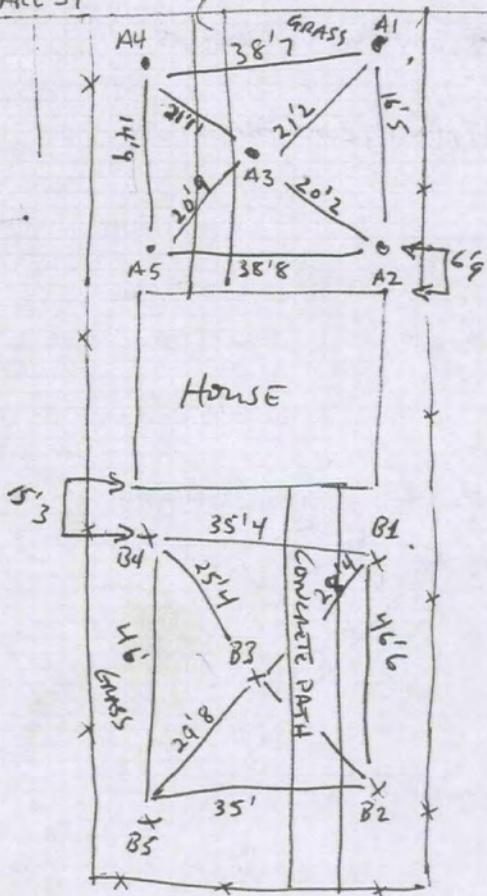
GRASS AT FRONT w/ CONCRETE DRIVEWAY

Grid for property sketch

CONCRETE PATH

PEARL ST

N



FENCE

B1 - B3 - 28' 4"
B2 - B3 - 31' 9"

STATION ID: CV0698, SAMPLE ID: CV0698A-CS

SAMPLE COLLECTION TIME: 1435

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS Front yard, no structures

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble Instrument #: 016144 Logged? Y or N

Aliquot #1: Latitude: 33°33'35.554" N Longitude 86°48'06.370" W

Media description: DK BWN, CL w/SCT, Damp, Gravel

Aliquot #2 Latitude: 33°33'35.467" N Longitude 86°48'06.071" W

Media description: DK BWN, CL w/SCT, Damp, Gravel

Aliquot #3: Latitude: 33°33'35.432" N Longitude 86°48'06.333" W

Media description: DK BWN, CL w/SCT, Damp, Gravel

Aliquot #4: Latitude: 33°33'35.367" N Longitude 86°48'06.559" W

Media description: DK BWN, CL w/SCT, Damp, Gravel

Aliquot #5: Latitude: 33°33'35.237 N Longitude 86°48'06.445" W

Media description: DK BWN, CL w/SCT, Damp, Gravel

STATION ID: CV0698 SAMPLE ID: CV0698B-CS

SAMPLE COLLECTION TIME: 1508

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble Instrument #: 016144 Logged? Y or N

Aliquot #1: Latitude: 33°33'35.114" N Longitude 86°48'05.672" W

Media description: DK BWN CL w/SCT, Damp

Aliquot #2 Latitude: 33°33'34.793" N Longitude 86°48'05.223" W

Media description: DK BWN, CL w/SCT, Damp

Aliquot #3: Latitude: 33°33'34.811" N Longitude 86°48'05.593 W

Media description: DK BWN, CL w/SCT, Damp

Aliquot #4: Latitude: 33°33'34.822" N Longitude 86°48'05.884" W

Media description: DK BWN, CL w/SCT, Damp

Aliquot #5: Latitude: 33°33'34.550" N Longitude 86°48'05.467" W

Media description: BWN CLAY, SOFT,

PERSONNEL ARE MONITORING - 1420 - 1535

DATACARD - ST: 1420 - 004672

FIN: 1535

(b) (6)

ADDRESS:

PROPERTY ID: CV-B699

DATE: 11/14/12

ARRIVAL TIME: 1045

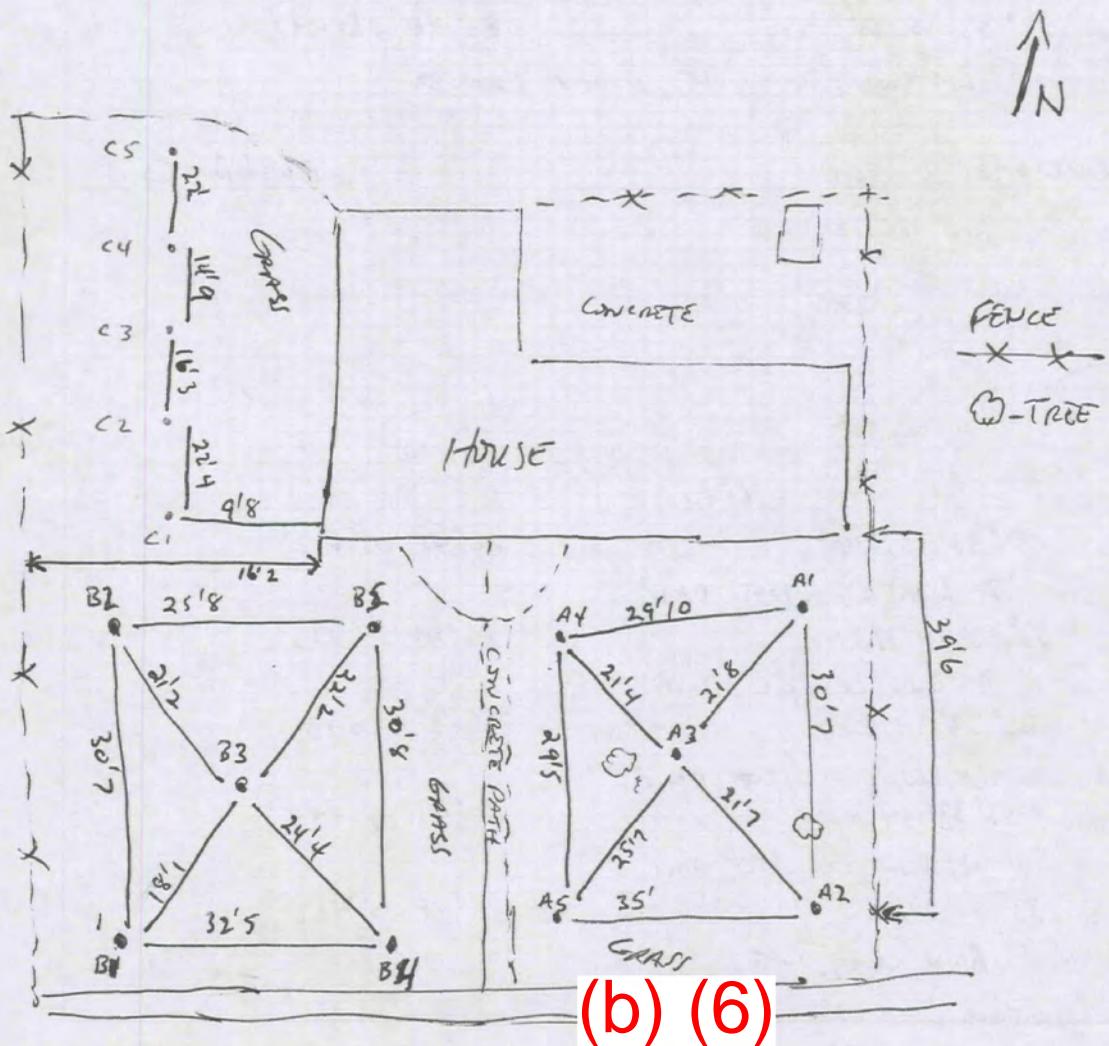
Other pertinent information (weather conditions, etc.):

Cloudy 48°F

PROPERTY COMMENTS:

FARLY FLAT

Grid for property sketch



STATION ID: CV0699A SAMPLE ID: CV0699A-CS

SAMPLE COLLECTION TIME: 1130

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS NO OBSERVED DRAINAGE PATTERNS

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [✓] Instrument #:	<u>020168</u>	Logged? <u>Y</u> or N
Aliquot #1: Latitude:	<u>33.56015060</u>	N Longitude <u>86.80184326</u> W
Media description:	<u>DRC CL w/SCT, Damp w/corr FRAGMENTS w/SLAG</u>	
Aliquot #2 Latitude:	<u>33.56008409</u>	N Longitude <u>86.8017753</u> W
Media description:	<u>DRC CL w/SCT, Damp w/corr FRAGMENTS w/SLAG</u>	
Aliquot #3: Latitude:	<u>33.56008409</u>	N Longitude <u>86.80184560</u> W
Media description:	<u>DK BWN CL w/SCT, Damp corr/SLAG FRAGMENTS</u>	
Aliquot #4: Latitude:	<u>33.56008415</u>	N Longitude <u>86.80184135</u> W
Media description:	<u>DK BWN, CL w/SCT, Damp corr/SLAG FRAGMENTS</u>	
Aliquot #5: Latitude:	<u>33.56001746</u>	N Longitude <u>86.80186046</u> W
Media description:	<u>DK BWN CL w/SCT, Damp corr/SLAG FRAGMENTS</u>	

STATION ID: CV0699B SAMPLE ID: CV0699B-CS

SAMPLE COLLECTION TIME: 1205

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS NO OBSERVED DRAINAGE PATTERNS

Collection: Composite or Grab MS/MSD? Y or N

GPS Coordinates: Trimble [✓] Instrument #:	<u>020168</u>	Logged? <u>Y</u> or N
Aliquot #1: Latitude:	<u>33.55993868</u>	N Longitude <u>86.80195656</u> W
Media description:	<u>DK BWN CL w/SCT, Damp, corr/SLAG FRAGMENTS</u>	
Aliquot #2 Latitude:	<u>33.55994649</u>	N Longitude <u>86.80202296</u> W
Media description:	<u>DK BWN CL w/SCT, Damp, corr/SLAG FRAGMENTS</u>	
Aliquot #3: Latitude:	<u>33.55998436</u>	N Longitude <u>86.80195951</u> W
Media description:	<u>DK BWN CL w/SCT, Damp, corr/SLAG FRAGMENTS</u>	
Aliquot #4: Latitude:	<u>33.55999647</u>	N Longitude <u>86.8018524</u> W
Media description:	<u>DK BWN CL w/SCT, Damp, corr/SLAG FRAGMENTS</u>	
Aliquot #5: Latitude:	<u>33.56004843</u>	N Longitude <u>86.80196336</u> W
Media description:	<u>DK BWN CL w/SCT, Damp, corr/SLAG FRAGMENTS</u>	

~~PARTS~~ AIR MONITORING - ST 1045 STP - 1245

DATAFORM - ST - 1045 STP - 1245

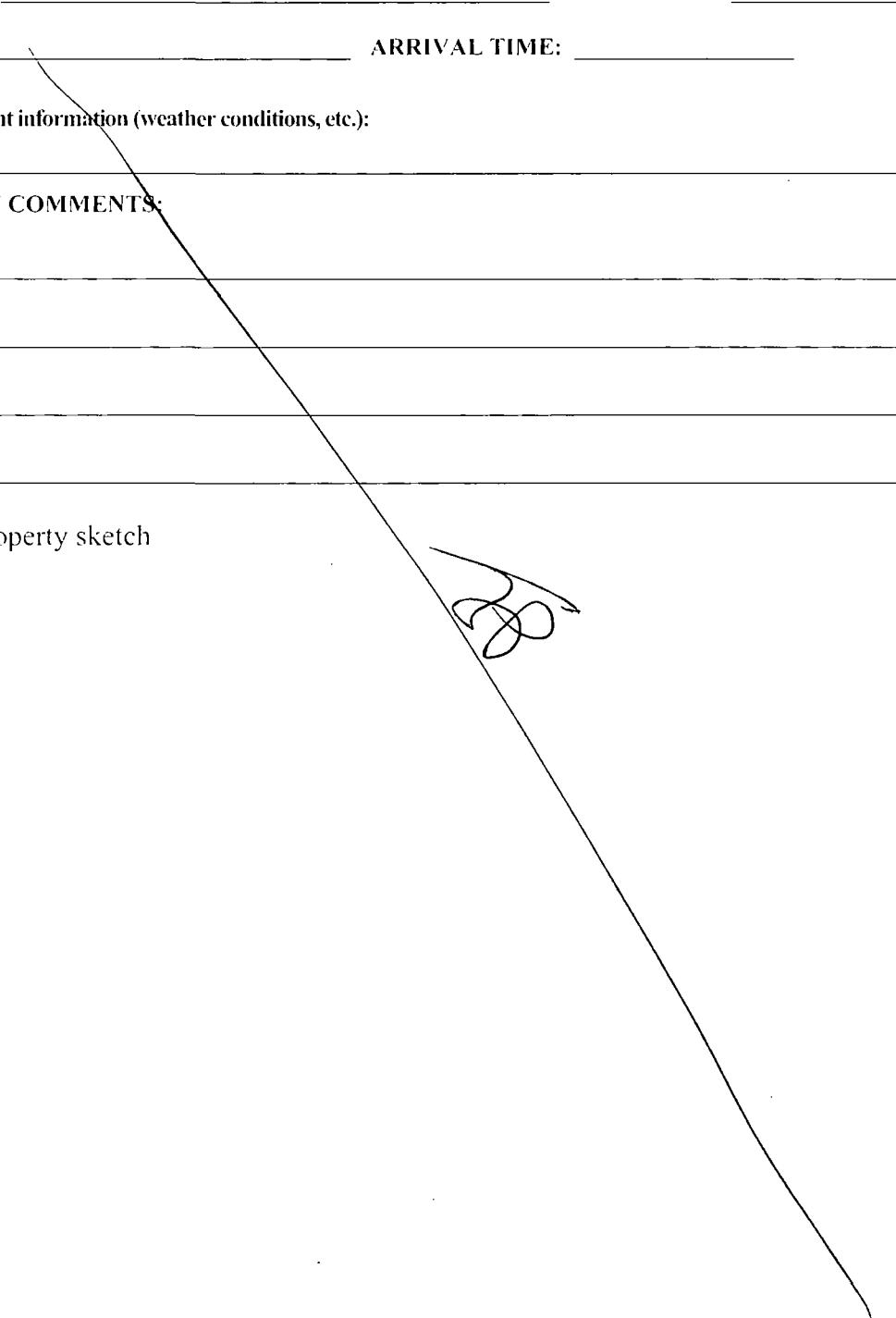
ADDRESS: _____ PROPERTY ID: _____

DATE: _____ ARRIVAL TIME: _____

Other pertinent information (weather conditions, etc.):

PROPERTY COMMENTS:

Grid for property sketch



STATION ID: CV0699C

SAMPLE ID: CV0699C-CS

SAMPLE COLLECTION TIME: 1227

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS w/ TREE STUMPS NO OBSERVED DRAINAGE PATTERNS

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No. If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [<input checked="" type="checkbox"/>]	Instrument #: <u>020168</u>	Logged? <u>C</u> or N
Aliquot #1: Latitude: <u>33.56000247</u>	N Longitude <u>86.80207273</u>	W
Media description: <u>BuN CL w/SLT, Damp, worn/SLAG FRAGMENTS</u>		
Aliquot #2: Latitude: <u>33.56004406</u>	N Longitude <u>86.80212456</u>	W
Media description: <u>BuN CL w/SLT, Damp, COAL/SLAG FRAGMENTS</u>		
Aliquot #3: Latitude: <u>33.56007383</u>	N Longitude <u>86.80216543</u>	W
Media description: <u>BuN CL w/SLT, Damp, COAL/SLAG FRAGMENTS</u>		
Aliquot #4: Latitude: <u>33.56010316</u>	N Longitude <u>86.80220210</u>	W
Media description: <u>BuN CL w/SLT, Damp, COAL/SLAG FRAGMENTS</u>		
Aliquot #5: Latitude: <u>33.56014301</u>	N Longitude <u>86.80225119</u>	W
Media description: <u>BuN CL w/SLT, Damp, COAL/SLAG FRAGMENTS</u>		

STATION ID: _____ SAMPLE ID: _____

~~SAMPLE COLLECTION TIME:~~ _____

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No. If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [<input type="checkbox"/>]	Instrument #: _____	Logged? Y or N
Aliquot #1: Latitude: _____	N Longitude _____	W
Media description: _____		
Aliquot #2: Latitude: _____	N Longitude _____	W
Media description: _____		
Aliquot #3: Latitude: _____	N Longitude _____	W
Media description: _____		
Aliquot #4: Latitude: _____	N Longitude _____	W
Media description: _____		
Aliquot #5: Latitude: _____	N Longitude _____	W
Media description: _____		

(b) (6)

ADDRESS:

PROPERTY ID: CV-8359

DATE: 11/14/12

ARRIVAL TIME: 1400

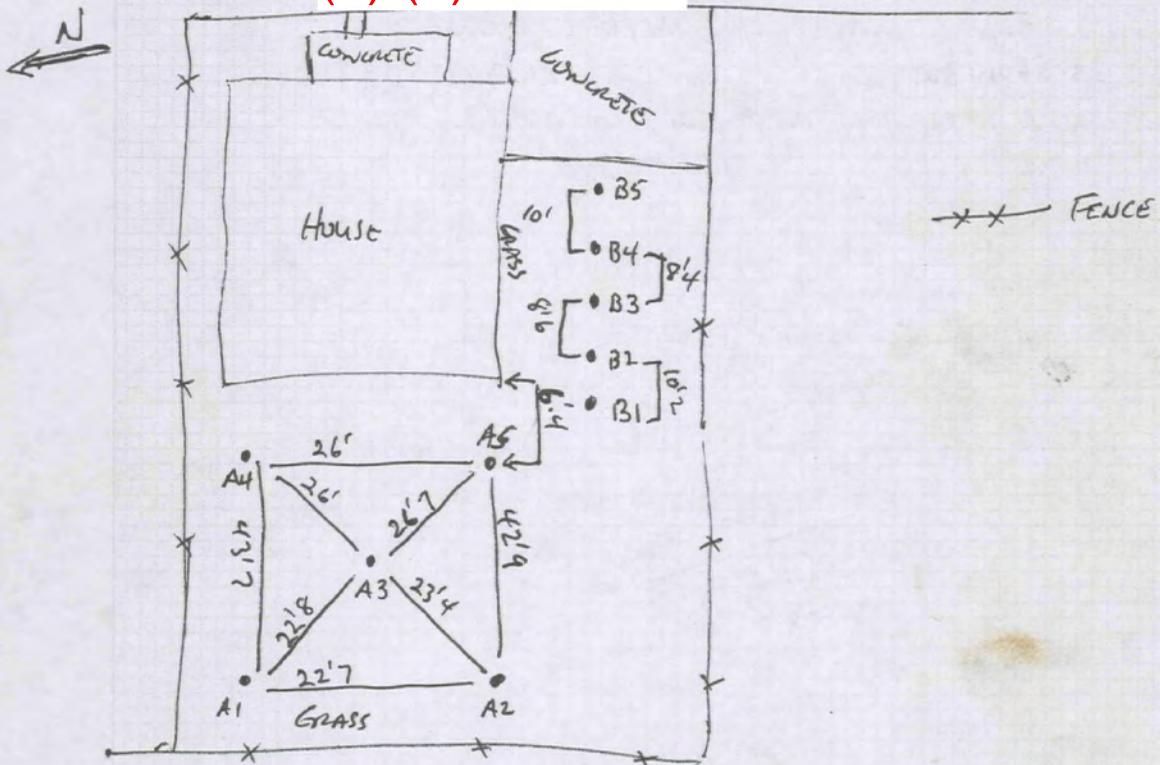
Other pertinent information (weather conditions, etc.):

Cloudy 48°f

PROPERTY COMMENTS:

Grid for property sketch

(b) (6)



STATION ID: CV0359 A SAMPLE ID: CV0359A-CS

SAMPLE COLLECTION TIME: 1428

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS FAIRLY FLAT NO DRAINAGE PATTERNS OBSERVED

Collection: Composite or Grab MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #:	<u>020168</u>	Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude:	<u>33.55482467</u>	N Longitude <u>86.79998844</u> W
Media description:	<u>BLK, CL w/SILT, DRY w/COAL FRAGMENTS</u>	
Aliquot #2 Latitude:	<u>33.55478535</u>	N Longitude <u>86.79997973</u> W
Media description:	<u>BLK CL w/SILT, DRY w/COAL FRAGMENTS</u>	
Aliquot #3: Latitude:	<u>33.55480195</u>	N Longitude <u>86.79991865</u> W
Media description:	<u>BLK CL w/SILT, DRY w/COAL FRAGMENTS</u>	
Aliquot #4: Latitude:	<u>33.55482755</u>	N Longitude <u>86.79983609</u> W
Media description:	<u>BLK CL w/SILT, DRY w/COAL FRAGMENTS</u>	
Aliquot #5: Latitude:	<u>33.55476627</u>	N Longitude <u>86.79983831</u> W
Media description:	<u>BLK CL w/SILT, DRY SLAG DEBRIS</u>	

STATION ID: CV0359 B SAMPLE ID: CV0359B-CS

SAMPLE COLLECTION TIME: 1451

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS FAIRLY FLAT NO DRAINAGE PATTERNS OBSERVED

Collection: Composite or Grab MS/MSD? Y or N

GPS Coordinates: Trimble <input checked="" type="checkbox"/> Instrument #:	<u>020168</u>	Logged? <input checked="" type="checkbox"/> or N
Aliquot #1: Latitude:	<u>33.55475450</u>	N Longitude <u>86.79983892</u> W
Media description:	<u>DK BWN SILT w/CL, DRY w/COAL FRAGMENTS</u>	
Aliquot #2 Latitude:	<u>33.55475363</u>	N Longitude <u>86.79980467</u> W
Media description:	<u>DK BWN SILT w/CL, DRY w/COAL FRAGMENTS</u>	
Aliquot #3: Latitude:	<u>33.55474390</u>	N Longitude <u>86.79976496</u> W
Media description:	<u>DK BWN SILT w/CL, DRY w/COAL FRAGMENTS</u>	
Aliquot #4: Latitude:	<u>33.55474642</u>	N Longitude <u>86.79972350</u> W
Media description:	<u>DK BWN SILT w/CL, DRY w/COAL FRAGMENTS</u>	
Aliquot #5: Latitude:	<u>33.55474872</u>	N Longitude <u>86.79969094</u> W
Media description:	<u>DK BWN SILT w/CL, DRY w/COAL FRAGMENTS</u>	

ARL number - ST-1400-1500

DATARAN - 1400 ~~1500~~

LAT - 33.55414633

LONG - 86.79920614

(b) (6)

ADDRESS:

PROPERTY ID: C10362

DATE: 10/14/12

ARRIVAL TIME: 1510

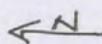
Other pertinent information (weather conditions, etc.):

Cloudy 48°F

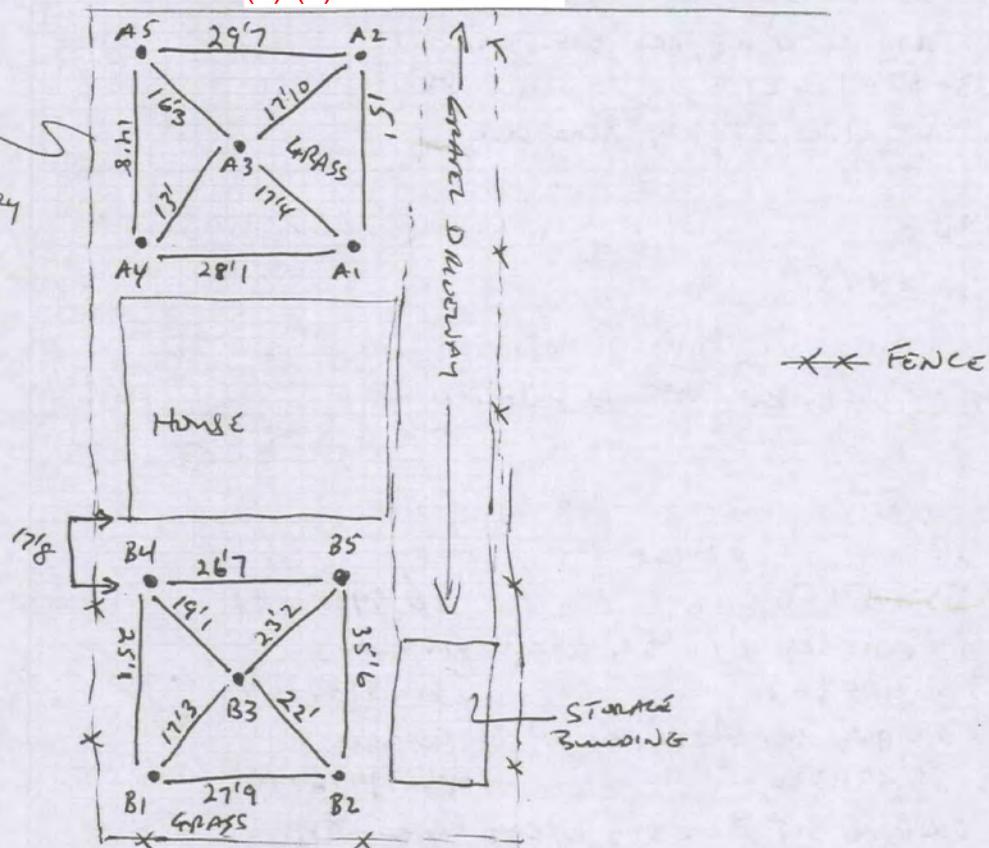
PROPERTY COMMENTS:

FARLY FLAT PROPERTY; NO OBSERVED DRAINAGE AROWS

Grid for property sketch



(b) (6)



STATION ID: CV0362A

SAMPLE ID: CV0362A-CS

SAMPLE COLLECTION TIME: 1530

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS NO OBSERVED DRAINAGE PATTERNS

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <u>✓</u> Instrument #:	<u>020168</u>	Logged? <u>Q</u> or N
Aliquot #1: Latitude:	<u>33.55503859</u>	N Longitude <u>86.79961188</u> W
Media description:	<u>DK BWN SCL w/CL, DMP, SP</u>	
Aliquot #2 Latitude:	<u>33.55504296</u>	N Longitude <u>86.79967510</u> W
Media description:	<u>DK BWN SCL w/CL, DMP, CNT FRAGMENTS</u>	
Aliquot #3: Latitude:	<u>33.55511228</u>	N Longitude <u>86.79959518</u> W
Media description:	<u>DK BWN SCL w/CL, DMP, CNT FRAGMENTS</u>	
Aliquot #4: Latitude:	<u>33.55512461</u>	N Longitude <u>86.79961072</u> W
Media description:	<u>DK BWN SCL w/CL, DMP, CNT FRAGMENTS</u>	
Aliquot #5: Latitude:	<u>33.55512190</u>	N Longitude <u>86.79956626</u> W
Media description:	<u>DK BWN SCL w/CL, DMP, CNT FRAGMENTS</u>	

STATION ID: CV0362B

SAMPLE ID: CV0362B-CS

SAMPLE COLLECTION TIME: 1600

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS NO OBSERVED DRAINAGE PATTERNS

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble <u>✓</u> Instrument #:	<u>020168</u>	Logged? <u>Q</u> or N
Aliquot #1: Latitude:	<u>33.55511011</u>	N Longitude <u>86.7996293</u> W
Media description:	<u>DK BWN SCL w/CL, DMP CNT FRAGMENTS</u>	
Aliquot #2 Latitude:	<u>33.55505142</u>	N Longitude <u>86.79998953</u> W
Media description:	<u>DK BWN SCL w/CL, DMP CNT FRAGMENTS</u>	
Aliquot #3: Latitude:	<u>33.55506428</u>	N Longitude <u>86.79990576</u> W
Media description:	<u>DK BWN SCL w/CL, DMP CNT FRAGMENTS</u>	
Aliquot #4: Latitude:	<u>33.55509973</u>	N Longitude <u>86.79985700</u> W
Media description:	<u>DK BWN SCL w/CL, DMP CNT FRAGMENTS</u>	
Aliquot #5: Latitude:	<u>33.55506387</u>	N Longitude <u>86.79985398</u> W
Media description:	<u>DK BWN SCL w/CL, DMP CNT FRAGMENTS</u>	

AIR MONITORING - ST 1500 STP: 1600

DATA PAM - ST - 1500 STP - 1600

LAT - 33.55509121 N

LONG - 86.79990797 W

(b) (6)

ADDRESS:

PROPERTY ID: CV-0360

DATE: 11/15/12

ARRIVAL TIME: 0845

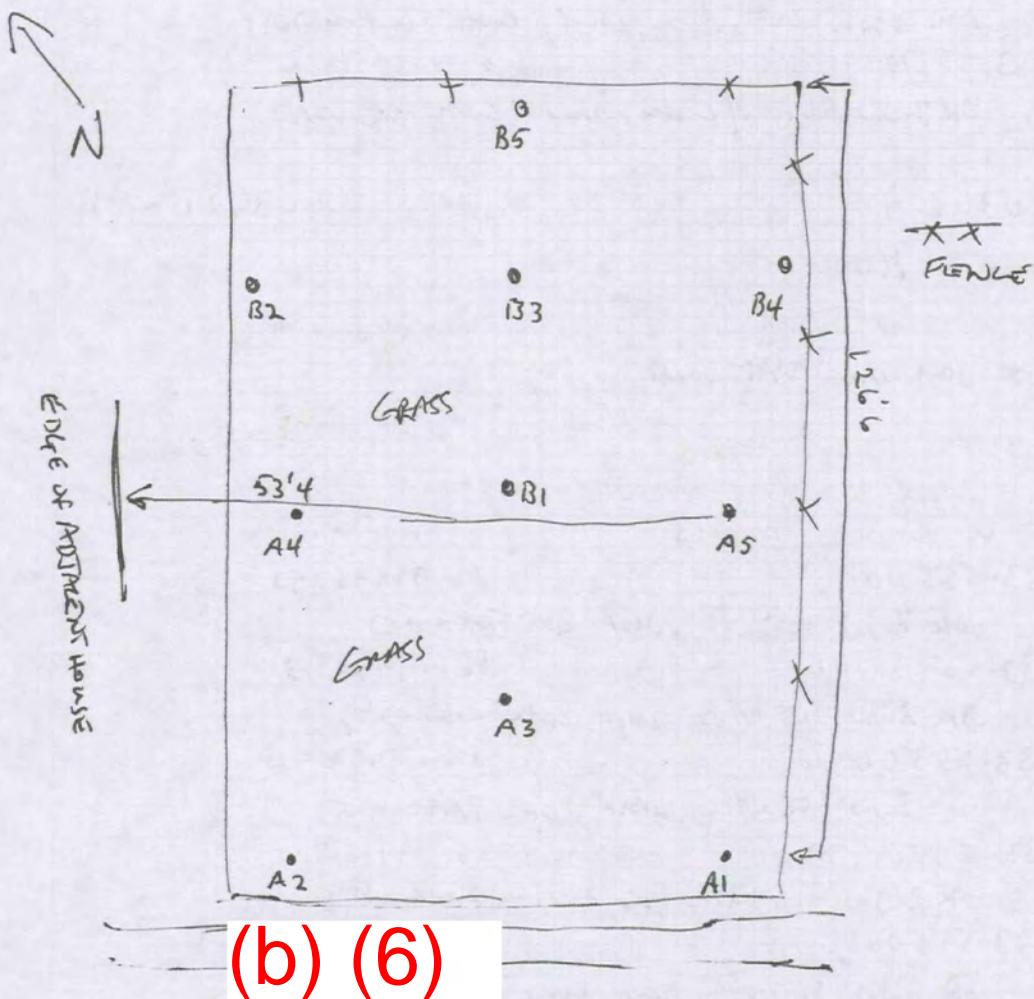
Other pertinent information (weather conditions, etc.):

48°F Sunny

PROPERTY COMMENTS:

JAZZANT LOT

Grid for property sketch



STATION ID: CV0366ASAMPLE ID: CV0366A-CSSAMPLE COLLECTION TIME: 0915

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS FAIRLY FLAT, NO OBSERVED DRAINAGECollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID: _____

GPS Coordinates: Trimble [V]	Instrument #: <u>020168</u>	Logged? <u>Y</u> or N
Aliquot #1: Latitude: <u>33.55537993</u>	N Longitude <u>86.79957086</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, Damp</u>		
Aliquot #2: Latitude: <u>33.55530008</u>	N Longitude <u>86.79955683</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, Damp</u>		
Aliquot #3: Latitude: <u>33.55532905</u>	N Longitude <u>86.79966177</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, Damp unconsolidated debris w/char fragments</u>		
Aliquot #4: Latitude: <u>33.55528628</u>	N Longitude <u>86.79974169</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, Damp char fragments</u>		
Aliquot #5: Latitude: <u>33.55537754</u>	N Longitude <u>86.79973842</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, Damp char fragments</u>		

STATION ID: CV0366BSAMPLE ID: CV0366B-CSSAMPLE COLLECTION TIME: 0930

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS FAIRLY FLAT NO OBSERVED DRAINAGECollection: Composite or GrabMS/MSD? Y or N

GPS Coordinates: Trimble [V]	Instrument #: <u>020168</u>	Logged? <u>Y</u> or N
Aliquot #1: Latitude: <u>33.55533520</u>	N Longitude <u>86.79974955</u>	W
Media description: <u>GRASS, DK BWN, CL w/SCT, damp coal fragments</u>		
Aliquot #2: Latitude: <u>33.55529072</u>	N Longitude <u>86.79986787</u>	W
Media description: <u>GRASS, DK BWN, CL w/SCT, damp coal fragments</u>		
Aliquot #3: Latitude: <u>33.55533913</u>	N Longitude <u>86.79985261</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, damp coal fragments</u>		
Aliquot #4: Latitude: <u>33.55538044</u>	N Longitude <u>86.79984753</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, damp coal fragments</u>		
Aliquot #5: Latitude: <u>33.55532579</u>	N Longitude <u>86.79995781</u>	W
Media description: <u>GRASS, DK BWN CL w/SCT, damp coal fragments</u>		

AERONETIDING - ST 0845

DATAFILE - D845

(b) (6)

ADDRESS: _____ PROPERTY ID: CV-0364

DATE: 11/15/12 ARRIVAL TIME: 0940

Other pertinent information (weather conditions, etc.):

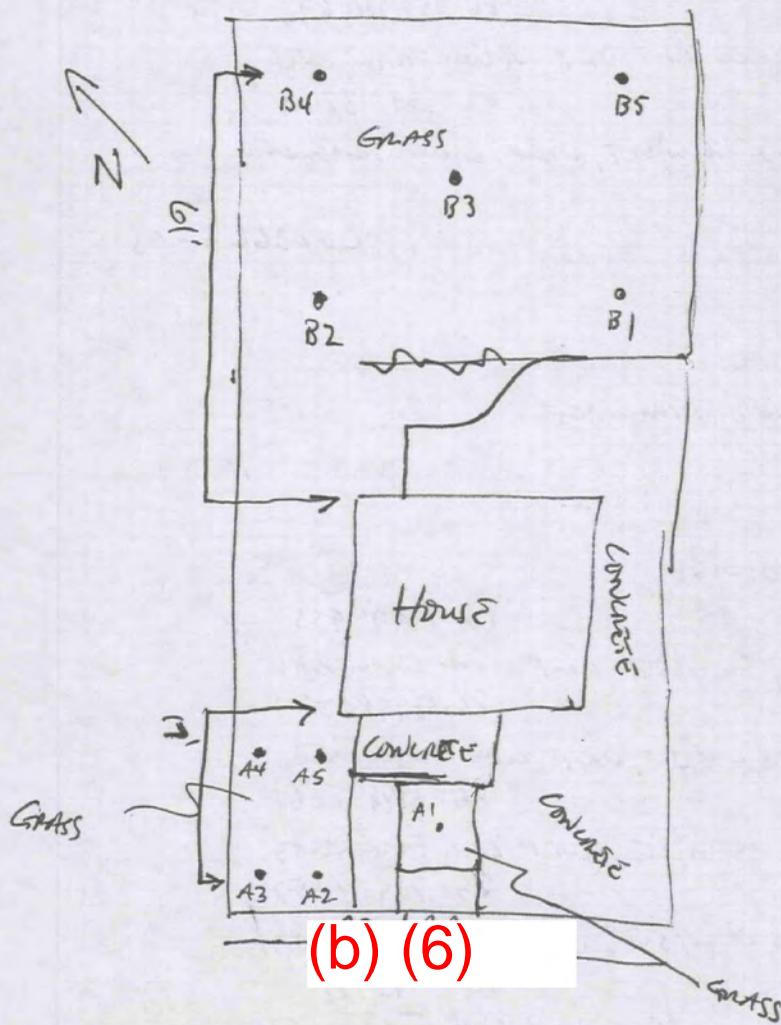
Sunny 48°F

PROPERTY COMMENTS:

House small ^{1/2} front yard

SPT composite front + back yard

Grid for property sketch



STATION ID: CV0364A

SAMPLE ID: CV0364A-CS

SAMPLE COLLECTION TIME: 1010

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS APPEARS SODDED; HOWEVER SOIL BELOW DK BWNCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: 020168	Logged? <u>Y</u> or N
Aliquot #1: Latitude: 33.55522939	N Longitude 86.79956789	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #2: Latitude: 33.555201816	N Longitude 86.79956930	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #3: Latitude: 33.55516770	N Longitude 86.79956002	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #4: Latitude: 33.55516777	N Longitude 86.79960123	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #5: Latitude: 33.55518987	N Longitude 86.79959405	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		

STATION ID: CV0364B

SAMPLE ID: CV0364B-CS

SAMPLE COLLECTION TIME: 0945

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS NO OBSERVERS DATA/AGE PATTERNSCollection: Composite or GrabMS/MSD? Y or NField Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble <input checked="" type="checkbox"/>	Instrument #: 020168	Logged? <u>Y</u> or N
Aliquot #1: Latitude: 33.555246	N Longitude 86.799844	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #2: Latitude: 33.55518425	N Longitude 86.79984659	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #3: Latitude: 33.55521798	N Longitude 86.79991125	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #4: Latitude: 33.55518365	N Longitude 86.79996885	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		
Aliquot #5: Latitude: 33.55525281	N Longitude 86.79996724	W
Media description: DK BWN CL w/SLT, Damp w/ CORAL FRAGMENTS		

AIR MONITORING - 0940 - 1015

DATA FROM CONTINUOUS SURVEY PROPERTY ADJACENT - SPP 1015

(b) (6)

ADDRESS: _____ PROPERTY ID: CV-0072

DATE: 11/15/12 ARRIVAL TIME: 1310

Other pertinent information (weather conditions, etc.):

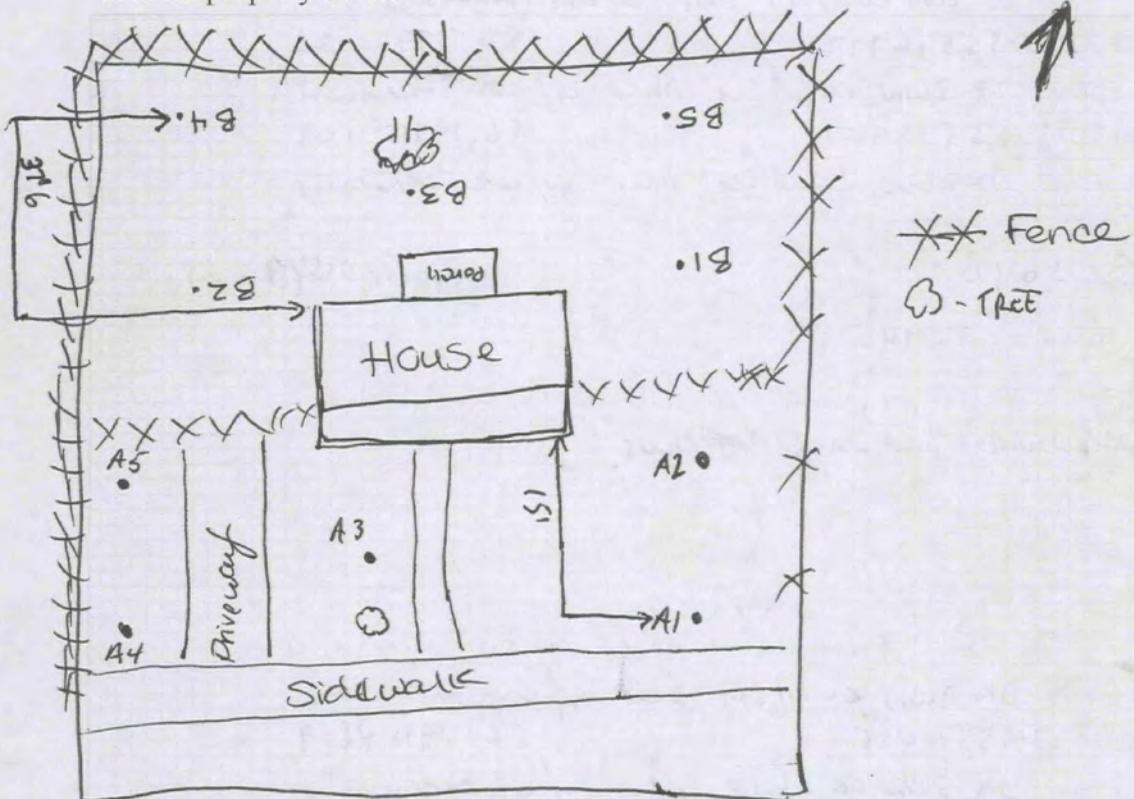
Sunny 61°F

PROPERTY COMMENTS:

Fairly flat; no observed drainage pattern

Photos 5379 - 5387 on Ryan's camera

Grid for property sketch



STATION ID: CV0072A

SAMPLE ID: CV0072A-CS

SAMPLE COLLECTION TIME: 1350

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS + CONCRETE FENCE SLOP TO STREET (31ST AVE)

Collection: Composite or Grab

MS/MSD? Y or N

Field Duplicate or Split: Yes or No If yes, indicate Duplicate/split sample station ID:

GPS Coordinates: Trimble [✓] Instrument #:	020168	Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.55411024	N Longitude 86.80141307 W
Media description:	DK BWN CL w/ SLT, DMP COAL FRAGMENTS / BUILDING DEBRIS	
Aliquot #2: Latitude:	33.55413152	N Longitude 86.80140413 W
Media description:	DK BWN CL w/ SLT, DMP COAL FRAGMENTS / BUILDING DEBRIS	
Aliquot #3: Latitude:	33.55413577	N Longitude 86.80145732 W
Media description:	DK BWN CL w/ SLT, DMP COAL FRAGMENTS / BUILDING DEBRIS	
Aliquot #4: Latitude:	33.55414568	N Longitude 86.80149293 W
Media description:	DK BWN CL w/ SLT, DMP COAL FRAGMENTS / BUILDING DEBRIS	
Aliquot #5: Latitude:	33.55417885	N Longitude 86.80148982 W
Media description:	DK BWN CL w/ SLT, DMP COAL FRAGMENTS / BUILDING DEBRIS	

STATION ID: CV0072B

SAMPLE ID: CV0072B-CS

SAMPLE COLLECTION TIME: 1330

Description of sample location (front, back, side yard; vegetable garden; play set; ditch, etc):

GRASS FENCE FLAT NO OBSERVATION DRAINAGE

Collection: Composite or Grab

MS/MSD? Y or N

GPS Coordinates: Trimble [✓] Instrument #:	020168	Logged? <input checked="" type="checkbox"/> Y or N
Aliquot #1: Latitude:	33.55432926	N Longitude 86.80140675 W
Media description:	DK BWN CL w/ SLT, DMP, COAL FRAGMENTS w/ BUILDING DEBRIS	
Aliquot #2: Latitude:	33.55433469	N Longitude 86.80145829 W
Media description:	DK BWN CL w/ SLT, DMP, COAL FRAGMENTS w/ BUILDING DEBRIS	
Aliquot #3: Latitude:	33.55436707	N Longitude 86.80143711 W
Media description:	DK BWN CL w/ SLT, DMP, COAL FRAGMENTS w/ BUILDING DEBRIS	
Aliquot #4: Latitude:	33.55440841	N Longitude 86.80147646 W
Media description:	DK BWN CL w/ SLT, DMP, COAL FRAGMENTS w/ BUILDING DEBRIS	
Aliquot #5: Latitude:	33.55440861	N Longitude 86.80138824 W
Media description:	DK BWN CL w/ SLT, DMP, COAL FRAGMENTS w/ BUILDING DEBRIS	

Air Monitoring ST 1315 STP - 1350

DataRam ST 1315 STP 1350

The remaining pages in this logbook are blank and have not been scanned.